

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P450814

Luminaire Tested: **GALN-SA1C-827-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450814  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1C-827-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4508 lumens  
Efficiency: N/A  
Efficacy: 79.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

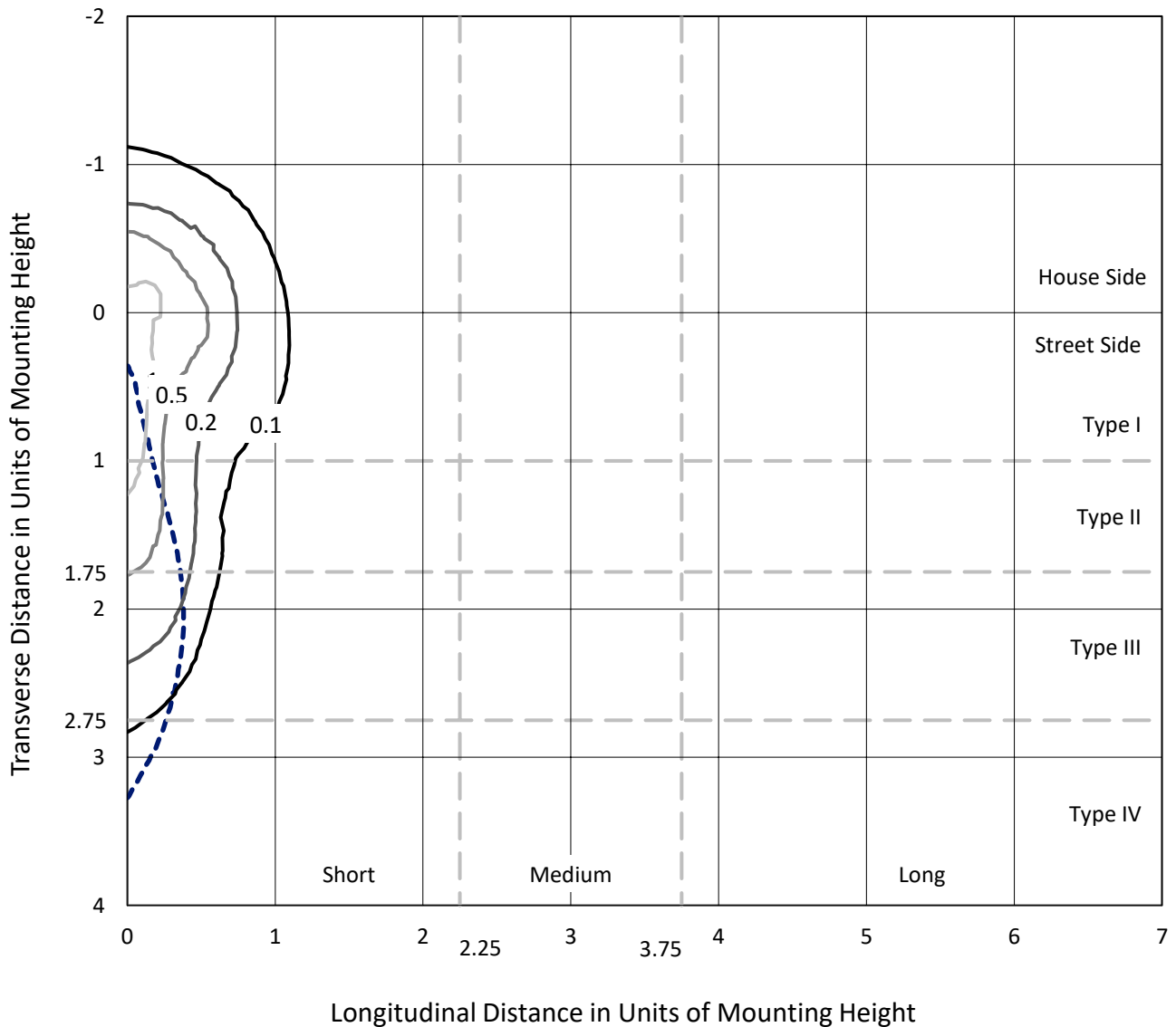
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

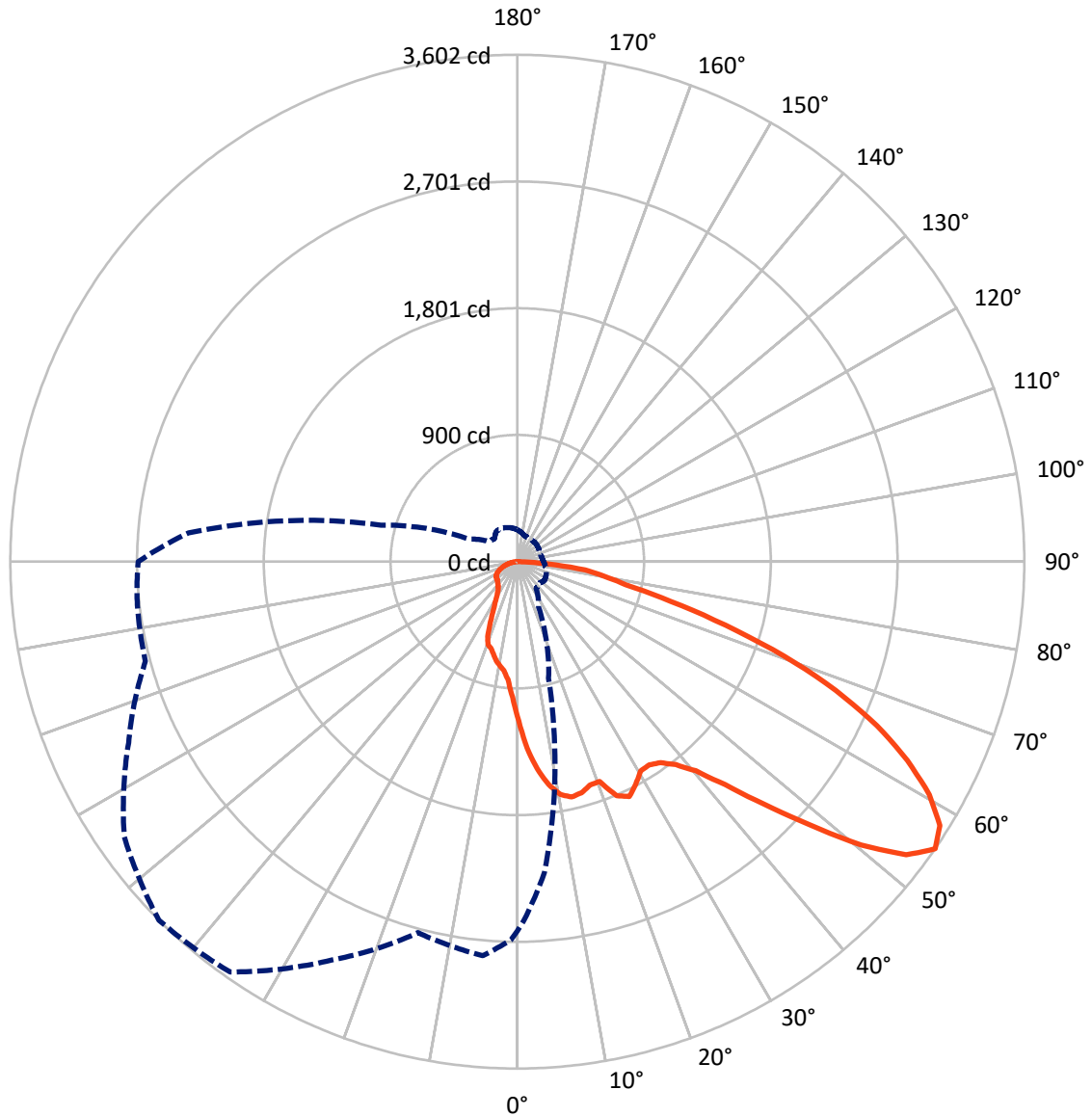
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	986.1	0.0	986.1
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	3521.9	0.0	3521.9
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	4508.0	0.0	4508.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.9	2.1
10°-20°	254.4	5.6
20°-30°	439.5	9.7
30°-40°	510.7	11.3
40°-50°	712.6	15.8
50°-60°	966.9	21.4
60°-70°	919.8	20.4
70°-80°	496.9	11.0
80°-90°	111.4	2.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4508.0	100.0
0°-180°	4508.0	100.0

**Coefficient of Utilization**



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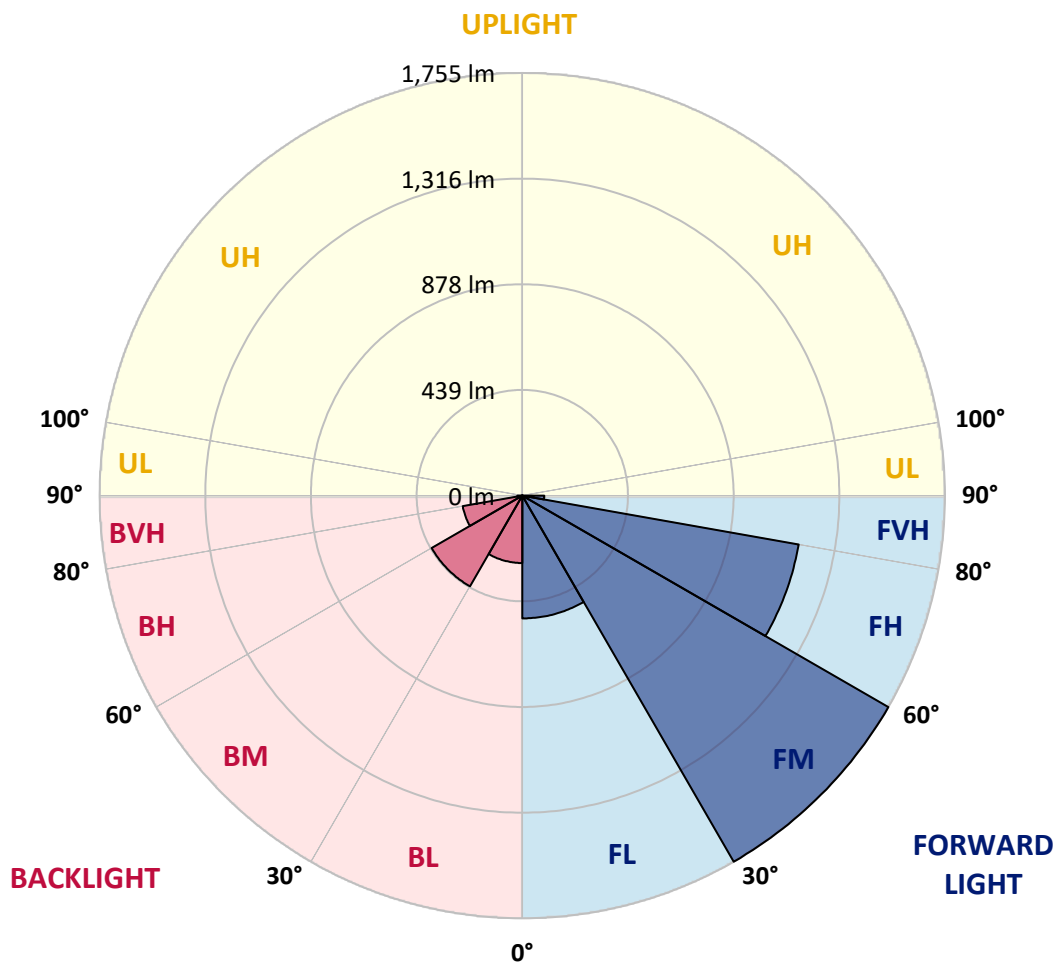
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	509.9	11.3			
FM	(30°-60°)	1755.3	38.9			
FH	(60°-80°)	1165.7	25.9			G1/1800
FVH	(80°-90°)	91.0	2.0			G1/100
BL	(0°-30°)	279.9	6.2	B1/500		
BM	(30°-60°)	434.8	9.6	B1/1000		
BH	(60°-80°)	251.1	5.6	B1/500		G1/500
BVH	(80°-90°)	20.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3
2.5°	1256.8	1252.1	1238.7	1203.6	1168.2	1132.2	1104.6	1070.1	1034.1	1014.7	990.1
5°	1274.1	1268.7	1237.2	1158.1	1086.4	1011.2	951.1	898.5	877.0	845.5	820.2
7.5°	1233.6	1231.3	1184.0	1070.4	972.2	873.8	805.7	763.4	725.1	710.8	713.8
10°	1196.8	1187.2	1128.1	979.7	865.2	785.2	736.4	695.0	668.0	660.8	662.3
12.5°	1166.1	1153.3	1083.4	918.7	818.5	754.5	692.4	649.2	624.6	631.4	654.6
15°	1159.9	1142.6	1064.7	897.9	792.9	710.5	642.4	592.7	574.3	589.2	626.3
17.5°	1200.3	1178.6	1096.8	904.7	768.5	665.6	582.0	525.2	509.8	533.5	582.0
20°	1330.3	1298.2	1197.1	944.3	766.1	643.3	546.9	489.8	496.4	541.6	592.1
22.5°	1570.6	1522.4	1372.5	1002.0	778.6	637.6	539.8	510.1	546.0	584.4	617.7
25°	1618.2	1580.4	1404.1	1015.0	775.9	633.8	560.0	574.9	615.0	634.1	622.5
27.5°	1645.0	1601.8	1402.0	950.2	693.8	574.9	535.3	560.0	570.1	551.7	520.2
30°	1707.4	1662.5	1437.4	882.1	571.3	426.5	373.8	363.7	370.6	374.1	362.8
32.5°	1793.4	1749.0	1504.0	837.5	494.0	352.7	301.0	286.7	283.4	279.6	275.1
35°	1904.6	1836.5	1569.4	808.9	462.2	326.3	278.7	267.7	263.2	257.9	253.1
37.5°	2017.6	1946.2	1652.1	778.9	441.1	307.8	263.8	258.7	251.0	245.4	238.5
40°	2137.8	2057.8	1727.3	752.7	420.5	295.9	253.1	252.5	242.4	235.8	227.8
42.5°	2241.8	2159.5	1794.5	736.7	404.8	283.4	246.5	248.3	237.9	228.1	217.7
45°	2324.5	2243.6	1856.7	736.7	392.0	270.9	245.4	244.2	233.8	221.6	209.7
47.5°	2397.1	2313.5	1917.4	755.4	384.0	260.5	238.8	240.9	230.2	214.7	203.1
50°	2453.3	2379.5	1999.2	784.6	375.9	252.2	230.5	241.8	227.2	211.2	197.8
52.5°	2525.0	2459.0	2097.6	824.4	369.1	243.0	223.1	241.8	226.9	211.5	196.9
55°	2624.3	2554.7	2216.3	857.4	358.1	234.4	216.5	235.0	226.0	210.0	194.5
57.5°	2693.9	2641.9	2300.1	879.4	342.3	223.4	210.6	228.4	222.2	204.3	187.4
58°	2697.2	2646.3	2312.3	884.5	338.4	221.3	209.1	225.4	220.4	201.9	185.0
60°	2659.7	2616.0	2314.7	877.3	316.4	210.9	201.3	213.2	210.9	188.0	172.2
62.5°	2523.5	2476.8	2218.6	819.4	287.3	198.1	189.4	196.9	191.5	168.3	153.8
65°	2329.9	2243.9	2021.2	728.3	266.5	184.4	173.4	174.0	168.3	151.7	138.9
67.5°	2072.0	1976.0	1711.3	613.8	250.7	169.2	154.4	152.9	146.0	135.3	124.9
70°	1754.7	1689.0	1390.7	499.3	233.2	152.6	132.9	132.0	127.9	119.9	110.6
72.5°	1422.2	1338.6	1123.0	399.7	211.8	136.5	113.0	114.8	109.4	103.8	95.5
75°	1049.5	994.8	868.1	320.6	182.9	119.0	94.3	94.9	92.5	86.5	80.0
77.5°	691.2	674.8	621.0	210.6	140.7	94.6	77.0	77.6	75.8	70.5	63.6
80°	465.1	454.1	420.8	135.6	94.0	68.4	59.5	60.1	59.8	54.1	44.9
82.5°	286.7	281.9	271.2	91.6	65.1	49.1	39.3	41.0	44.3	38.1	30.6
85°	135.3	135.6	163.9	50.0	38.4	31.5	21.4	22.9	22.9	22.9	17.2
87.5°	17.5	18.4	22.6	21.1	14.0	11.9	7.7	6.5	5.7	7.4	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3
2.5°	981.4	975.5	962.7	959.7	957.9	963.0	949.6	953.2	947.2	963.9	961.2
5°	821.7	822.3	832.7	839.6	842.0	839.6	830.7	815.2	803.3	798.5	799.7
7.5°	708.1	718.5	736.4	756.3	774.4	779.8	774.7	745.3	713.2	693.0	686.4
10°	670.4	684.3	704.9	720.6	736.7	749.5	752.1	729.2	691.2	643.3	624.6
12.5°	672.4	691.5	711.1	716.2	714.7	719.7	717.3	713.5	688.5	627.5	596.3
15°	652.8	675.4	689.1	686.4	681.7	677.2	670.9	661.1	652.2	609.4	574.9
17.5°	607.6	630.8	642.1	643.0	643.0	641.8	626.6	623.1	621.9	601.1	579.9
20°	615.9	628.7	623.7	615.3	617.7	625.7	616.8	615.0	621.9	631.1	627.2
22.5°	620.7	616.2	578.2	541.3	533.0	557.9	563.0	582.9	610.6	643.9	665.6
25°	591.2	555.3	487.2	445.5	422.0	445.2	475.6	512.4	553.8	596.6	621.9
27.5°	494.3	466.9	418.2	380.7	360.2	363.7	389.6	423.2	461.6	490.4	508.9
30°	372.4	360.2	334.9	322.1	309.6	306.6	317.6	330.4	347.4	350.9	355.7
32.5°	274.2	272.4	273.9	269.7	267.4	267.1	263.8	266.8	268.6	270.6	266.5
35°	248.0	245.7	241.5	240.3	238.8	239.4	237.9	236.4	237.6	239.4	240.6
37.5°	234.7	231.1	225.1	223.1	223.1	223.9	221.6	221.0	223.1	228.7	231.7
40°	224.2	220.1	213.2	210.6	212.3	214.7	211.5	210.3	215.3	221.3	226.0
42.5°	214.4	211.2	204.6	201.6	203.1	207.6	202.8	201.9	208.5	215.0	220.7
45°	206.1	202.8	196.9	195.4	196.0	200.2	196.9	196.9	203.1	210.3	215.3
47.5°	199.6	195.4	191.5	190.3	190.9	193.3	192.7	192.7	198.7	206.1	211.2
50°	193.0	189.4	184.4	185.0	186.5	189.7	189.4	190.3	196.3	205.5	210.9
52.5°	190.0	184.7	179.0	179.6	184.1	188.0	186.8	187.7	194.5	211.8	219.5
55°	186.8	179.6	173.1	174.0	179.0	184.7	183.2	184.4	192.4	215.9	226.6
57.5°	180.5	172.2	165.1	165.7	173.1	179.0	176.7	178.1	187.7	211.5	222.8
58°	177.8	170.7	163.9	164.2	171.3	177.8	175.2	176.4	186.2	210.3	221.0
60°	166.5	162.4	156.4	156.7	163.6	169.2	167.7	168.9	178.4	201.6	209.7
62.5°	151.1	148.7	147.2	147.2	151.4	156.7	158.2	159.7	168.3	182.3	189.4
65°	134.4	134.4	134.7	134.7	137.4	144.2	145.1	149.0	157.0	163.9	169.2
67.5°	123.1	122.5	123.1	121.6	122.8	127.0	131.5	135.0	143.3	148.1	149.9
70°	108.6	108.3	108.6	106.5	108.0	111.5	114.5	120.4	129.1	132.6	133.5
72.5°	94.3	94.3	94.9	93.4	93.4	97.3	99.3	105.9	113.9	116.0	116.3
75°	79.4	80.3	80.3	78.2	78.8	81.2	83.9	89.2	96.7	98.1	98.1
77.5°	63.1	66.3	66.3	64.2	65.1	65.4	69.0	71.7	77.3	77.9	75.5
80°	45.8	49.1	51.7	50.0	51.5	49.7	51.7	53.5	59.2	56.5	52.6
82.5°	32.7	35.1	37.2	37.5	36.0	32.7	35.4	35.7	38.4	34.8	32.7
85°	18.1	20.2	22.9	21.7	19.3	17.2	18.1	18.7	18.4	17.5	16.4
87.5°	4.8	5.1	5.7	4.2	3.9	3.3	4.5	4.5	5.1	5.4	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3
2.5°	963.3	976.4	1004.6	1026.1	1052.2	1084.0	1121.5	1159.3	1200.0	1212.8	1230.7
5°	797.0	829.8	843.4	882.4	921.1	979.1	1040.9	1112.6	1191.1	1228.9	1265.2
7.5°	681.1	698.6	712.9	741.4	787.8	858.3	935.9	1025.5	1136.7	1191.7	1244.9
10°	618.6	620.4	637.9	673.3	713.8	775.9	849.4	949.6	1073.6	1140.6	1203.0
12.5°	577.3	569.5	588.6	625.4	671.2	728.6	796.2	891.6	1028.1	1096.8	1172.4
15°	541.0	528.8	543.1	580.8	626.0	693.6	766.1	867.2	1010.3	1090.3	1174.2
17.5°	541.9	508.3	513.3	545.1	590.1	658.8	746.8	866.3	1037.4	1129.5	1228.9
20°	608.8	555.0	532.1	538.0	581.4	656.4	755.7	908.0	1126.3	1260.7	1366.9
22.5°	674.5	642.1	605.2	593.0	616.8	695.3	812.5	1006.4	1319.6	1522.1	1713.9
25°	651.6	679.3	670.1	652.8	658.2	723.3	851.2	1087.3	1469.8	1697.9	1878.1
27.5°	521.4	571.6	581.7	581.4	583.5	637.0	765.5	1032.9	1488.5	1731.5	1903.7
30°	366.4	370.9	376.2	386.6	396.1	444.0	599.0	906.8	1480.2	1746.7	1919.2
32.5°	264.4	270.3	277.8	292.1	314.7	375.6	524.0	866.6	1524.2	1809.4	1964.4
35°	241.8	248.6	255.8	272.1	293.5	350.0	494.3	850.0	1596.5	1911.1	2045.6
37.5°	234.7	242.4	248.6	260.5	277.8	331.6	467.2	838.7	1670.5	2018.8	2154.4
40°	229.6	238.5	243.6	253.1	265.0	314.7	443.1	829.8	1742.2	2117.2	2241.8
42.5°	225.1	234.4	240.9	247.7	257.6	299.5	421.7	820.8	1804.4	2212.7	2329.0
45°	219.8	231.4	239.7	245.1	253.7	286.7	405.4	813.7	1875.1	2297.5	2417.0
47.5°	215.3	228.1	238.5	244.8	248.0	277.8	392.3	823.5	1960.2	2386.1	2498.8
50°	215.6	227.8	240.9	250.7	242.1	270.3	384.2	862.5	2070.8	2491.4	2563.3
52.5°	225.1	240.0	250.4	252.8	233.8	261.4	380.1	930.6	2201.7	2584.5	2628.5
55°	235.8	251.3	262.6	261.1	229.3	250.1	379.2	1003.1	2345.0	2693.0	2713.2
57.5°	232.0	254.6	271.8	264.1	229.6	239.1	375.3	1061.7	2464.9	2774.2	2797.1
58°	230.8	253.4	273.0	263.5	228.7	235.8	374.4	1066.8	2481.6	2779.9	2809.0
60°	219.2	243.0	272.1	259.0	223.6	226.9	364.6	1083.2	2477.1	2750.7	2816.1
62.5°	198.1	217.7	251.6	237.3	208.2	215.0	342.6	1062.9	2356.3	2610.3	2711.7
65°	174.3	188.9	211.5	208.8	186.2	202.8	312.6	982.9	2114.6	2382.5	2489.3
67.5°	156.4	168.3	182.6	178.7	167.4	186.5	280.2	847.6	1843.3	2108.9	2243.3
70°	138.3	147.5	154.7	152.0	148.4	170.4	251.3	687.9	1583.4	1849.0	1979.2
72.5°	119.9	128.5	134.4	130.6	128.5	153.5	227.8	533.8	1250.6	1525.4	1692.8
75°	100.2	108.9	113.0	108.6	107.4	135.3	193.0	398.8	938.3	1175.9	1320.5
77.5°	77.6	86.8	92.2	90.7	91.3	111.2	155.8	273.0	670.9	801.5	953.8
80°	54.4	64.5	68.1	66.6	70.8	84.8	110.0	173.4	462.8	520.2	627.5
82.5°	33.6	43.1	43.7	45.2	48.2	62.8	83.0	105.6	290.6	300.4	378.3
85°	17.0	20.5	22.0	24.4	27.1	38.4	47.3	65.4	187.1	141.6	211.5
87.5°	5.7	5.9	7.1	8.9	11.0	15.8	20.2	26.8	46.4	25.6	65.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3
2.5°	1266.7	1291.9	1310.4	1327.3	1311.0	1309.5	1293.4	1267.5	1256.8	1256.8
5°	1341.3	1400.5	1448.4	1479.0	1465.9	1434.4	1382.3	1316.0	1280.3	1274.1
7.5°	1361.8	1478.7	1567.6	1599.2	1577.1	1507.6	1407.9	1296.1	1244.9	1233.6
10°	1349.3	1501.3	1631.9	1681.8	1651.2	1545.9	1410.0	1272.9	1209.8	1196.8
12.5°	1336.2	1504.3	1643.8	1716.0	1696.1	1576.8	1425.2	1257.7	1184.9	1166.1
15°	1345.8	1505.5	1629.2	1703.8	1716.6	1614.0	1450.2	1268.7	1179.8	1159.9
17.5°	1405.8	1528.1	1608.4	1668.7	1713.7	1664.6	1521.2	1321.4	1225.0	1200.3
20°	1531.3	1582.2	1620.3	1667.0	1739.2	1767.8	1666.7	1465.9	1352.0	1330.3
22.5°	1894.8	1885.6	1807.6	1806.7	1911.4	2025.9	2019.1	1759.8	1588.4	1570.6
25°	2031.0	1988.2	1875.4	1848.1	1894.2	2070.8	2045.3	1819.8	1661.6	1618.2
27.5°	1977.7	1871.6	1797.5	1791.3	1776.1	1943.0	2004.5	1844.2	1687.2	1645.0
30°	1974.5	1818.3	1712.5	1725.0	1739.5	1898.9	2027.1	1920.6	1752.6	1707.4
32.5°	1982.5	1825.8	1718.7	1721.1	1764.5	1905.5	2052.1	2003.9	1838.6	1793.4
35°	2014.9	1868.0	1758.6	1752.9	1820.7	1948.3	2094.6	2134.8	1956.0	1904.6
37.5°	2067.3	1952.2	1831.4	1829.9	1928.4	2025.6	2147.6	2266.8	2072.9	2017.6
40°	2144.3	2050.6	1961.1	1953.1	2074.7	2151.4	2216.3	2407.5	2208.8	2137.8
42.5°	2237.4	2168.7	2132.1	2163.9	2280.8	2292.7	2323.3	2537.5	2324.5	2241.8
45°	2323.6	2320.4	2371.2	2455.7	2523.8	2452.4	2435.2	2624.6	2414.3	2324.5
47.5°	2426.2	2514.9	2668.3	2792.0	2863.4	2638.3	2530.6	2681.4	2479.8	2397.1
50°	2530.3	2747.7	2992.8	3165.3	3180.5	2840.2	2596.4	2734.9	2539.3	2453.3
52.5°	2639.8	2933.6	3259.9	3460.3	3430.9	3016.0	2660.0	2771.2	2600.5	2525.0
55°	2734.9	3047.5	3409.2	3601.6	3558.5	3123.1	2728.7	2810.5	2688.0	2624.3
57.5°	2788.2	3057.0	3372.0	3540.0	3493.3	3102.2	2760.2	2839.6	2743.9	2693.9
58°	2795.9	3044.2	3339.0	3504.3	3456.7	3084.7	2759.9	2838.4	2747.4	2697.2
60°	2789.1	2961.3	3216.1	3363.4	3313.4	2974.7	2748.6	2816.1	2702.2	2659.7
62.5°	2725.7	2817.3	3004.1	3111.2	3096.9	2802.8	2702.2	2732.0	2564.5	2523.5
65°	2642.5	2621.0	2732.6	2808.4	2819.1	2674.0	2656.1	2550.0	2387.9	2329.9
67.5°	2541.3	2398.6	2398.3	2441.4	2459.2	2475.9	2560.1	2352.2	2133.3	2072.0
70°	2369.7	2055.7	1961.1	2012.0	1997.1	2137.8	2388.5	2074.4	1826.4	1754.7
72.5°	2055.1	1631.3	1479.9	1545.3	1507.8	1676.5	2089.9	1707.1	1510.2	1422.2
75°	1665.8	1220.3	1064.1	1124.2	1101.0	1271.7	1738.9	1239.9	1083.2	1049.5
77.5°	1293.4	884.2	793.5	785.2	802.4	946.3	1275.6	837.2	714.1	691.2
80°	831.0	632.9	638.2	627.5	636.4	596.6	774.4	534.1	483.6	465.1
82.5°	546.9	441.1	525.8	485.4	461.0	401.2	508.0	349.7	296.8	286.7
85°	372.6	324.8	295.6	226.0	266.2	309.0	381.0	188.3	149.3	135.3
87.5°	168.3	113.0	83.0	51.2	80.9	93.4	185.0	22.0	17.0	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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